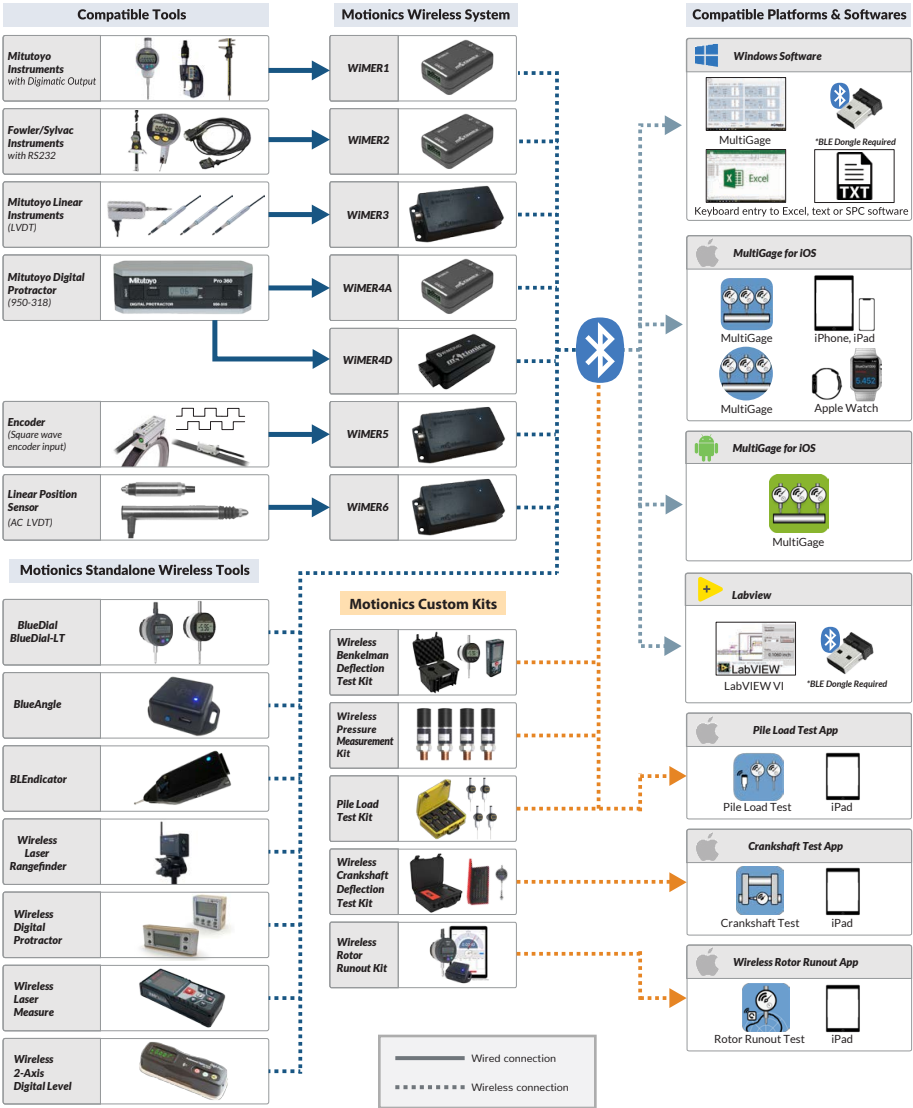


Product Selection Guide

Wireless Dimensional



Motionics specializes in bringing smart solutions to industrial metrology applications. We provide diverse external transmitters, compatible with a wide range of instruments from different manufacturers, to add wireless data transmission capability to your existing gages. We also offer standalone Bluetooth dial indicators, angle sensors, and pressure sensors for various applications. With the help of our apps/software covering iOS, Android, Windows and LabVIEW, dimensional measurement will be safer, more efficient, and error-free.

BlueDial

Digital Dial Indicator With Integrated Bluetooth Low Energy Transmitter

BlueDial








Comparison Table

	BlueDial		BlueDial-LT					
								
Product ID	BD10-783	BD10-793	BDLT-102	BDLT-103	BDLT-202	BDLT-203	BDLT-302	BDLT-402
Specifications								
Measurement Range	0.5" 12.7mm			1" 25mm		2" 50mm	4" 100mm	
Resolution	0.0005" 0.01mm	0.0001" 0.001mm	0.0005" 0.01mm	0.00005" 0.001mm	0.0005" 0.01mm	0.00005" 0.001mm	0.0005" 0.01mm	
Accuracy	0.0008 in	0.00012 in	±0.001 in	±0.0002 in	±0.001 in	±0.0002 in	0.001 in	
Wireless Data Rate	10 samples/sec		8 samples/sec				10 samples/sec	
Transmission Range	20 m (indoors)/ 30 m (outdoors)							
Stem Size	3/8"		8 mm				3/8"	
Tip Thread	4-48UNF		M2.5				4-48UNF	
Battery	Rechargeable							
Battery life	60 hours		50 hours					
Mounting Options	Stem*							Stem/Back lug
Hardware								
Dial Indicator	Mitutoyo 543-793		Motionics Dial					
Bluetooth Transmitter	On back							Top-mounted
USB Charging Kit								
Free Software								
iOS iPhone/iPad/Apple Watch								
Android 4.3 and after								
Windows PC**								
LabVIEW** Customizable								
Optional Accessories***								
BLE USB Dongle								
Pelican Case 1010								
Pelican Case 1040								
Pelican Case 1120								
Mitutoyo 7033B Base								
NOGA DG61003 Base								
Extension Rod 4-48UNF 1-6" one each								

* Back lug mounting available upon request
 ** Requires BLE USB dongle
 ***Purchase separately; refer to Accessories page for additional information

WiMER

Wireless (Bluetooth Low Energy) Transmitter For Dimensional Measurement Gages





<div>WiMER</div> <div>Comparison Table</div>							
Product ID	<div>WiMER1</div> <div>W1</div>	<div>WiMER2</div> <div>W2</div>	<div>WiMER3</div> <div>W3</div>	<div>WiMER4A</div> <div>W4A</div>	<div>WiMER4D</div> <div>W4D</div>	<div>WiMER5</div> <div>W5</div>	<div>WiMER6</div> <div>W6</div>
Compatibility	Mitutoyo Instruments	Fowler Instruments	Mitutoyo Linear Gages LVDT	Mitutoyo Digital Protractor 950-318	Mitutoyo Digital Protractor 950-318	Encoders Optical/Magnetic Linear/Rotary	AC LVDT
Specifications							
Dimensions	2.50 x 1.63 x 0.80 in		4.09 x 2.20 x 0.91 in	2.50 x 1.630 x 0.80 in	1.97 x 0.98 x 0.61 in	4.09 x 2.20 x 0.91 in	
Data Transmission	Bluetooth Low Energy						
Wireless Data Rate	10 samples/sec	10 samples/sec	30 samples/sec	2 samples/sec		30 samples/sec	
Capturing Mode	Single/Continuous						
Transmission Range	20 m (indoors)/ 30 m (outdoors)						
Working Temperature	0-50 °C						
Battery	Rechargeable 400 mAh	Rechargeable 400 mAh	Rechargeable 3200 mAh	Rechargeable 400 mAh	Powered by battery in protractor 9V	Rechargeable 3200 mAh	Rechargeable 3200 mAh
Battery Life	60 hours	20 hours	30 hours		120 hours	30 hours (depending on encoder)	15 hours
Hardware							
Data Cable	Optional	Optional	Not needed	✓	Not needed	Not needed	Not needed
Data Trigger Switch	✓	✓	—	✓	—	—	—
Foot Switch Connector Port (2.5mm)	✓	✓	—	✓	—	—	—
USB Charging Kit	✓	✓	✓	✓	—	✓	✓
BLE USB Dongle	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Compatible Instruments	Caliper Series 500, 551, 552, 573 Height Gage Series 192, 570, 574 Micrometer Series 277, 293, 314, 317, 323, 324, 326, 331, 342, 343, 369, 389, 395, 406, 422 Caliper Series 573 Dial Indicator Series 543 with SPC output Dial Indicator Series 575 Thickness Gage Series 546 Digimatic Caliper Gage Series 209 And more	Micrometer 54-815-xxx Micrometer 54-866-xxx Micrometer 54-870-xxx Caliper 54-100-xxx with data output Caliper 54-110-xxx Dial Indicator 54-530-xxx Test Indicator 54-562-xxx And more	Linear Gage: 542-156, 157, 158, 161, 162, 163, 164, 165, 166, 171, 172, 173, 174, 175, 176 Linear Gage: 542-181, 182, 204, 222, 223, 224, 230, 244, 262, 264, 270, 401, 421, 612, 613 And more	Digital Protractor: Mitutoyo 950-318 PRO 360, PRO 3600	Digital Protractor: Mitutoyo 950-318 PRO 360, PRO 3600	Optical & magnetic encoders with 90° phase shift, differential square wave, RS422 (TTL) output	AC LVDT Gages (Linear variable differential transformers)
Free Software							
iOS iPhone/iPad/Apple Watch	✓	✓	✓	✓	✓	✓	✓
Android 4.3 and after	✓	✓	✓	✓	✓	✓	✓
Windows PC*	✓	✓	✓	✓	✓	✓	✓
LabVIEW* Customizable	✓	✓	✓	✓	✓	✓	✓

* Requires BLE USB dongle

Accessories



Cases*

Comparison Table

	<div>Pelican Case 1010</div> 	<div>Pelican Case 1040</div> 	<div>Pelican Case 1120</div> 	<div>Pelican Case 1170</div> 
Product ID	Pelican1010	Pelican1040	Pelican1120	Pelican1170
Dimensions	4.37" x 2.87" x 1.68"	6.50" x 3.87" x 1.75"	7.29" x 4.78" x 3.33"	10.54" x 6.04" x 3.16"
Carries	Exactly one BlueDial	BlueDial and all charging accessories	BlueDial and all charging accessories	BlueDial and all charging accessories
Protection	IP67 - Water/dust proof	IP67 - Water/dust proof	IP67 - Water/dust proof	IP67 - Water/dust proof



Magnetic Bases*

Comparison Table

	<div>Magnetic Base Mitutoyo 70338</div> 	<div>Magnetic Base NOGA DG61003</div> 
Product ID	70338	DG61003
Applicable Holding Stem Diameter	6 mm, 8 mm, 9.53 mm (3/8")	6 mm, 8 mm, 9.53 mm (3/8")
Dovetail Groove	Provided	Provided
Magnetic Pull	132 lbs	176 lbs
Overall Length	15 "	11 "

Others

Comparison Table

	<div>USB Bluetooth Dongle-BLED112</div> 	<div>Extension Stem Rod Set</div> 
Product ID	BLED112	EXTR1
Features	Up to 8 WiMER/BlueDial simultaneous connection to Windows PC	6 piece dial/digital indicator extension stem rod; 4-48 indicator tip thread
Specifications	Required for Windows PC	1", 2", 3", 4", 5", 6" stem rod; combine up to 21"

*Other sizes are available; contact us for details.